

Abstract

The invention relates to mixtures for producing transparent plastics, comprising a) a prepolymer, produced from the compounds of formulae (I) and (II), wherein R¹ independently represents hydrogen or a methyl group, R² independently represents a linear or branched, aliphatic or cycloaliphatic group or a substituted or unsubstituted aromatic or heteroaromatic group and m and n independently represent an integer greater or equal 0, with m + 1 > 0, and compounds of formula (III), alkylthiols or polythiols, preferably HS-R³-SH (III), wherein R³ is equal or different from R² and can have the meaning indicated in R², and b) at least one radically polymerizable monomer (A) having at least two methacrylate groups and c) aromatic vinyl compounds, such as styrene and d) optionally a radically polymerizable monomer having at least two terminal olefinic groups that have different reactivity, and/or e) optionally at least one monomer (B) from the group of methacrylates, preferably 2-hydroxyethylmethacrylate.